

Exploring Aeronautics			
2002 Science			
Priority Academic Student Skills			
<b>Oklahoma Science</b>			
<b>Grade 5</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Fundamentals of Aeronautics (145-176)	OK	SCI.5.A.4.3	Make predictions based on patterns in experimental data.
Fundamentals of Aeronautics (145-176)	OK	SCI.5.A.5.4	Share results of an investigation in sufficient detail so that data may be combined with data from other students and analyzed further.
Wings(177-208)	OK	SCI.5.A.3.2	Evaluate the design of a scientific investigation.
Airplane Control(209-256)	OK	SCI.5.A.3.2	Evaluate the design of a scientific investigation.
Science of Flight	OK	SCI.5.A.5.1	Use different ways to investigate questions and evaluate the fairness of the test.
Science of Flight	OK	SCI.5.A.5.3	Formulate a general statement to represent the data.
Intro to Aeronautics (109-123)	OK	SCI.5.A.3.2	Evaluate the design of a scientific investigation.
Intro to Aeronautics (109-123)	OK	SCI.5.A.4.3	Make predictions based on patterns in experimental data.
Intro to Aeronautics (109-123)	OK	SCI.5.A.5.4	Share results of an investigation in sufficient detail so that data may be combined with data from other students and analyzed further.
Scientific Method(124-144)	OK	SCI.5.A.3.1	Ask questions about the world and formulate an orderly plan to investigate a question.
Scientific Method(124-144)	OK	SCI.5.A.3.2	Evaluate the design of a scientific investigation.
Scientific Method(124-144)	OK	SCI.5.A.3.3	Design and conduct a scientific investigation.
Scientific Method(124-144)	OK	SCI.5.A.4.3	Make predictions based on patterns in experimental data.
Exploring Aeronautics			
2002 Science			
Priority Academic Student Skills			
<b>Oklahoma Science</b>			
<b>Grade 6</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Fundamentals of Aeronautics (145-176)	OK	SCI.6.A.1.1	Identify qualitative and/or quantitative changes given conditions (e.g., temperature, mass, volume, time, position, length) before, during, and after an event.
Fundamentals of Aeronautics (145-176)	OK	SCI.6.A.4.1	Report data in an appropriate method when given an experimental procedure or data.
How an Airplane Flies	OK	SCI.6.B.1.2	The mass of an object is not altered due to changes in shape.
Intro to Aeronautics (109-123)	OK	SCI.6.A.4.1	Report data in an appropriate method when given an experimental procedure or data.

Intro to Aeronautics (109-123)	OK	SCI.6.A.5.2	Use technology to gather data and analyze results of investigations.
Scientific Method(124-144)	OK	SCI.6.A.4.1	Report data in an appropriate method when given an experimental procedure or data.
Scientific Method(124-144)	OK	SCI.6.A.4.4	Accept or reject hypotheses when given results of an investigation.
Scientific Method(124-144)	OK	SCI.6.A.5.2	Use technology to gather data and analyze results of investigations.
Scientific Method(124-144)	OK	SCI.6.A.5.3	Review data, summarize data, and form logical conclusions.
<b>Exploring Aeronautics</b>			
<b>2002 Science</b>			
<b>Priority Academic Student Skills</b>			
<b>Oklahoma Science</b>			
<b>Grade 7</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Fundamentals of Aeronautics (145-176)	OK	SCI.7.A.1.1	Identify qualitative and/or quantitative changes given conditions (e.g., temperature, mass, volume, time, position, length) before, during, and after an event.
Fundamentals of Aeronautics (145-176)	OK	SCI.7.A.3.4	Identify a testable hypothesis for an experiment.
Fundamentals of Aeronautics (145-176)	OK	SCI.7.A.4.1	Report data in an appropriate method when given an experimental procedure or data.
Science of Flight	OK	SCI.7.A.3.4	Identify a testable hypothesis for an experiment.
Science of Flight	OK	SCI.7.A.4.4	Accept or reject hypotheses when given results of an investigation.
Science of Flight	OK	SCI.7.A.5.1	Use systematic observations, make accurate measurements, and identify and control variables.
Integrating with Aeronautics	OK	SCI.7.A.1.2	Use appropriate tools (e.g., metric ruler, graduated cylinder, thermometer, balances, spring scales, stopwatches) when measuring objects, organisms, and/or events.
Integrating with Aeronautics	OK	SCI.7.A.5.1	Use systematic observations, make accurate measurements, and identify and control variables.
Integrating with Aeronautics	OK	SCI.7.B.1.1	Matter has physical properties that can be measured (i.e., mass, volume, temperature, color, texture, and density). Physical changes of a substance do not alter the chemical nature of a substance (e.g., phase changes of water and/or sanding wood).
Intro to Aeronautics (109-123)	OK	SCI.7.A.4.2	Interpret data tables, line, bar, trend, and/or circle graphs.
Intro to Aeronautics (109-123)	OK	SCI.7.A.5.2	Use technology to gather data and analyze results of investigations.
Scientific Method(124-144)	OK	SCI.7.A.3.1	Ask questions about the world and design investigations that lead to scientific inquiry.

Scientific Method(124-144)	OK	SCI.7.A.3.2	Evaluate the design of a scientific investigation.
Scientific Method(124-144)	OK	SCI.7.A.4.1	Report data in an appropriate method when given an experimental procedure or data.
Scientific Method(124-144)	OK	SCI.7.A.4.2	Interpret data tables, line, bar, trend, and/or circle graphs.
Scientific Method(124-144)	OK	SCI.7.A.4.4	Accept or reject hypotheses when given results of an investigation.
<b>Exploring Aeronautics</b>			
<b>2002 Science</b>			
<b>Priority Academic Student Skills</b>			
<b>Oklahoma Science</b>			
<b>Grade 8</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Fundamentals of Aeronautics (145-176)	OK	SCI.8.A.1.1	Identify qualitative and/or quantitative changes given conditions (e.g., temperature, mass, volume, time, position, length) before, during, and after an event.
Fundamentals of Aeronautics (145-176)	OK	SCI.8.A.4.1	Report data in an appropriate method when given an experimental procedure or data.
Fundamentals of Aeronautics (145-176)	OK	SCI.8.B.2.1	The motion of an object can be measured. The position of an object, its speed and direction can be represented on a graph.
Fundamentals of Aeronautics (145-176)	OK	SCI.8.B.2.2	An object that is not being subjected to a net force will continue to move at a constant velocity (in a straight line and a constant speed).
Airplane Control(209-256)	OK	SCI.8.B.2.2	An object that is not being subjected to a net force will continue to move at a constant velocity (in a straight line and a constant speed).
How an Airplane Flies	OK	SCI.8.B.2.2	An object that is not being subjected to a net force will continue to move at a constant velocity (in a straight line and a constant speed).
Science of Flight	OK	SCI.8.A.5.2	Use technology to gather data and analyze results of investigations.
Science of Flight	OK	SCI.8.B.2.2	An object that is not being subjected to a net force will continue to move at a constant velocity (in a straight line and a constant speed).
Integrating with Aeronautics	OK	SCI.8.A.5.1	Use systematic observations, make accurate measurements, and identify and control variables.
Integrating with Aeronautics	OK	SCI.8.B.2.1	The motion of an object can be measured. The position of an object, its speed and direction can be represented on a graph.
Integrating with Aeronautics	OK	SCI.8.B.2.2	An object that is not being subjected to a net force will continue to move at a constant velocity (in a straight line and a constant speed).

Intro to Aeronautics (109-123)	OK	SCI.8.A.5.2	Use technology to gather data and analyze results of investigations.
Intro to Aeronautics (109-123)	OK	SCI.8.B.2.2	An object that is not being subjected to a net force will continue to move at a constant velocity (in a straight line and a constant speed).
Scientific Method(124-144)	OK	SCI.8.A.3.1	Ask questions about the world and design investigations that lead to scientific inquiry.
Scientific Method(124-144)	OK	SCI.8.A.4.1	Report data in an appropriate method when given an experimental procedure or data.
Scientific Method(124-144)	OK	SCI.8.A.4.4	Accept or reject hypotheses when given results of an investigation.
Scientific Method(124-144)	OK	SCI.8.A.5.2	Use technology to gather data and analyze results of investigations.